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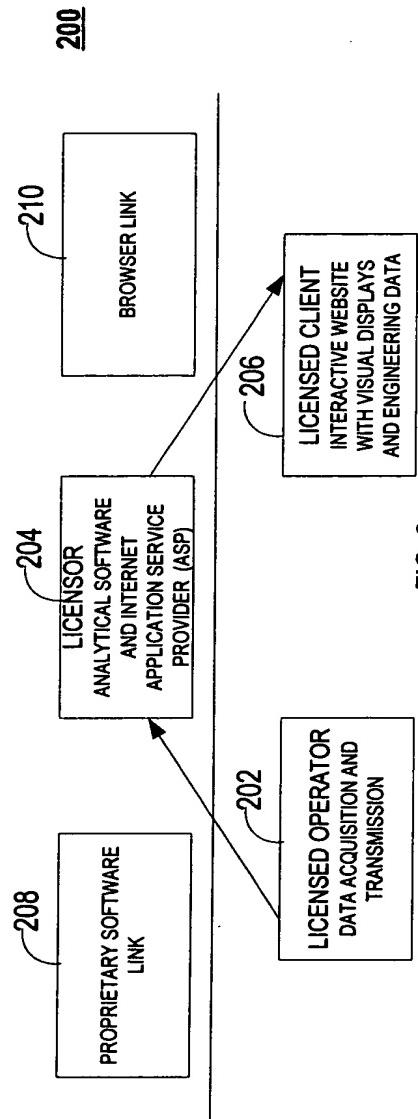
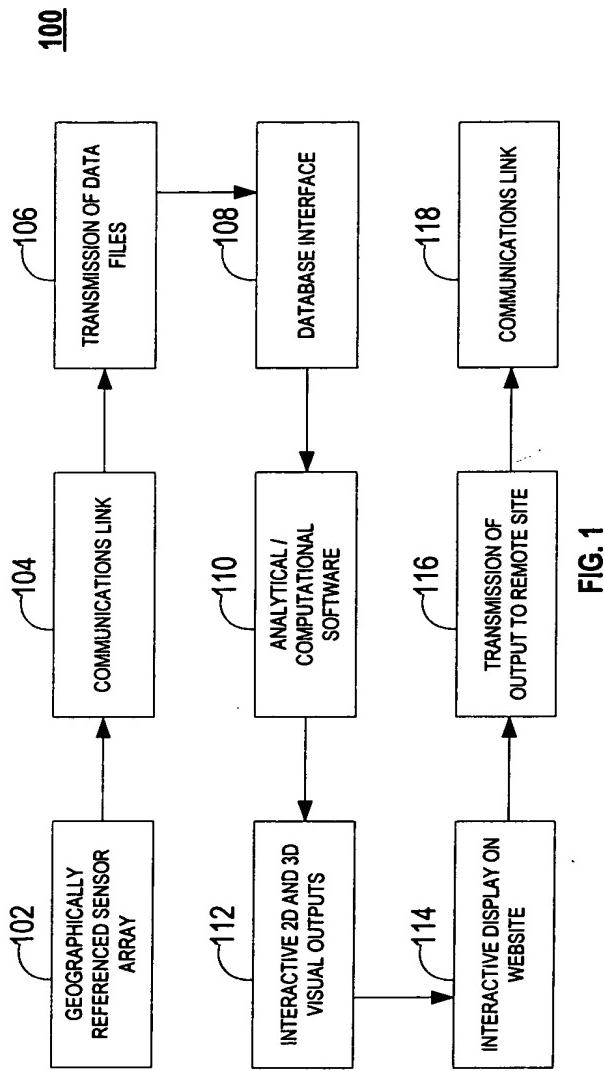
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U.S. Patent Application No. 10/666,547
Inventor: John H. SOHL, III et al.
Title: ENHANCED SUBSURFACE MEMBRANE
INTERFACE PROBE (MIP)
Attorney Docket No.: 36507-193186
Sheet 1 of 20



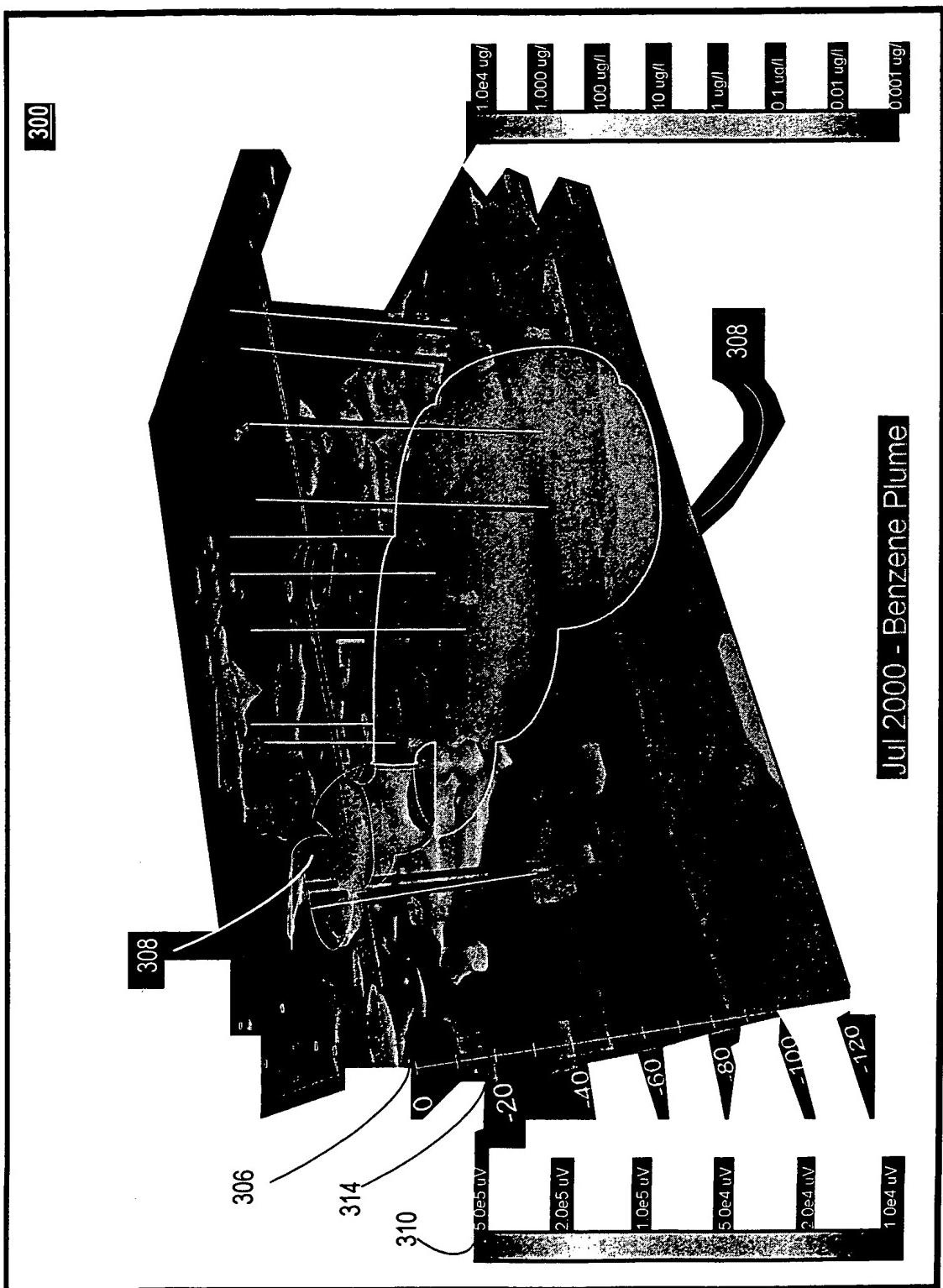


FIG.3

400

ENHANCED
MIP PROBE

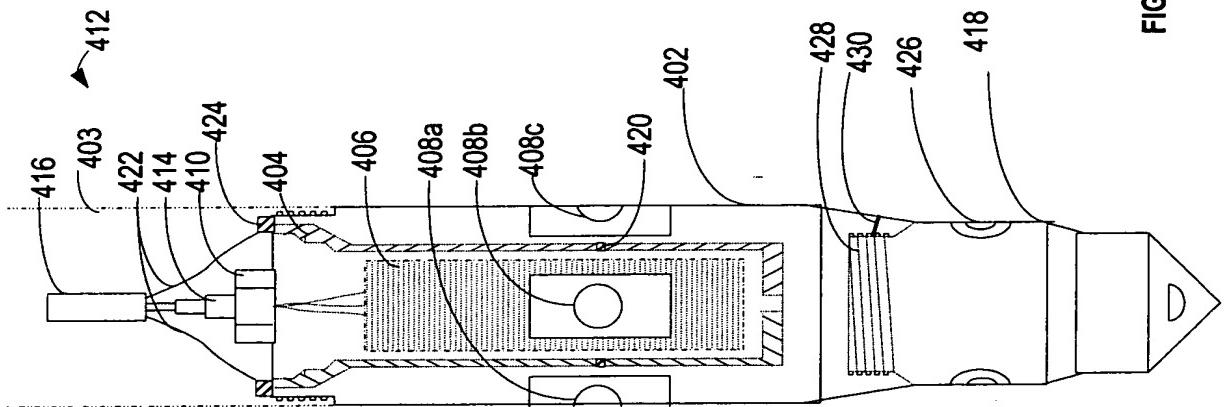
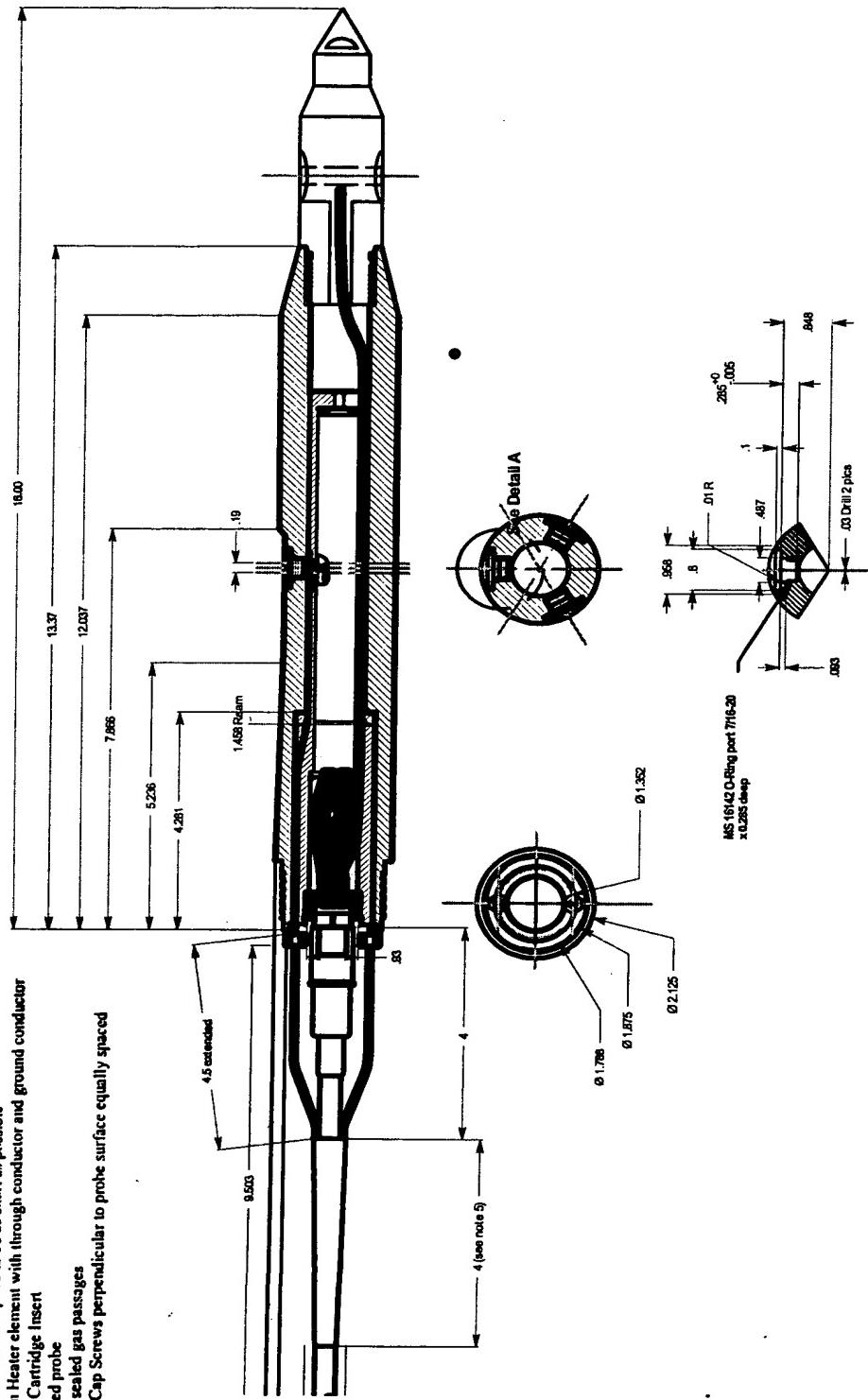


FIG. 4A

440

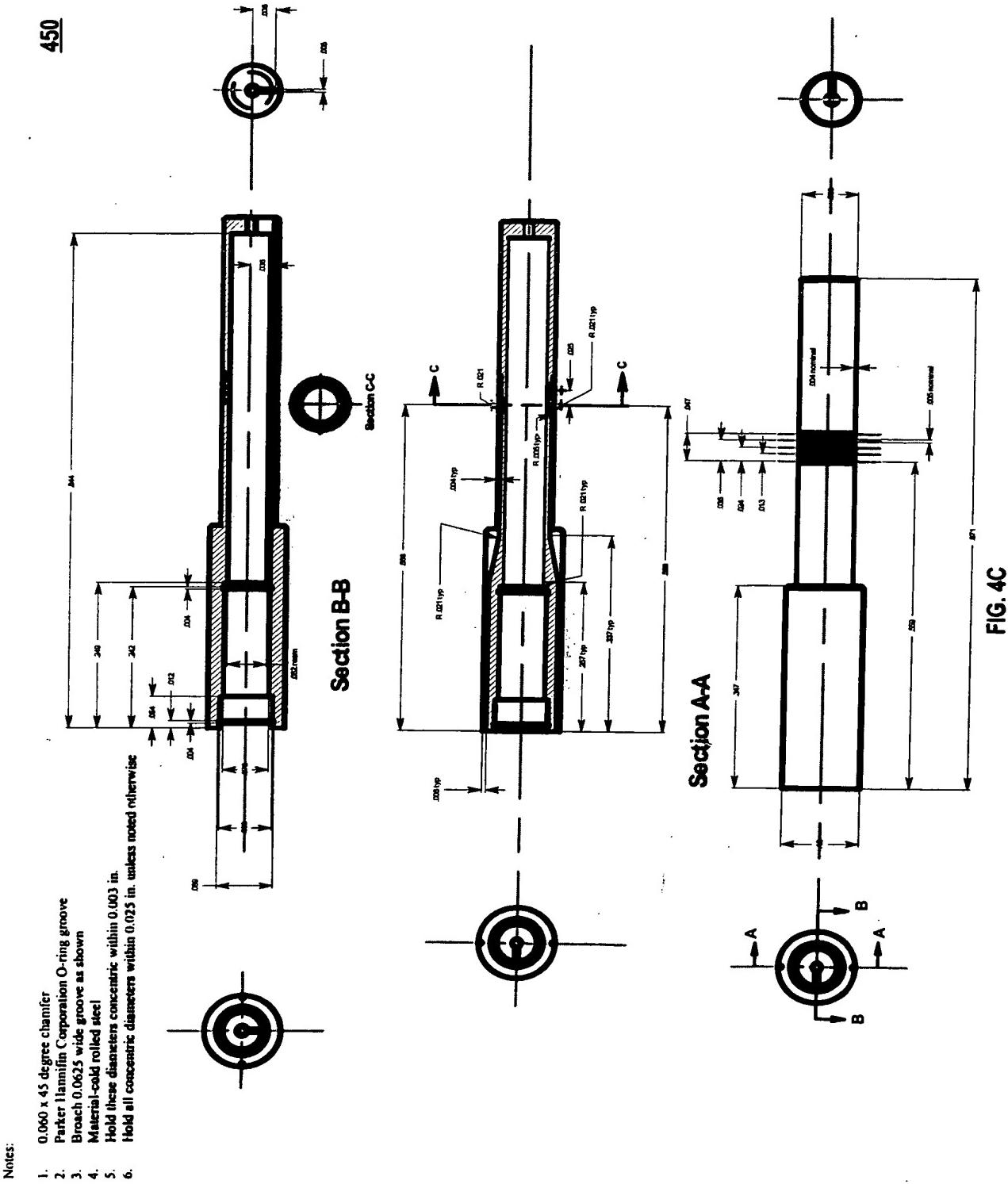
- Notes:
1. SEACON LSG-6-BC-IIP bulkhead connector
 2. SEACON RMG-6-FS inline Connector (waterblocked)
 3. Waterblocked breakout splice (Scripps)
 4. Length of Nylon tube breakout to be 0.5 in. longer than the length of the RMG breakout. Use the face of the RMG connector and the furthest extent of the shortest Nylon tube as datum points
 5. Length of breakout splice to be as short as possible
 6. Custom Heater element with through conductor and ground conductor
 7. Heater Cartridge Insert
 8. Modified probe
 9. O-ring sealed gas passages
 10. 4 # 10 Cap Screws perpendicular to probe surface equally spaced



Detail A

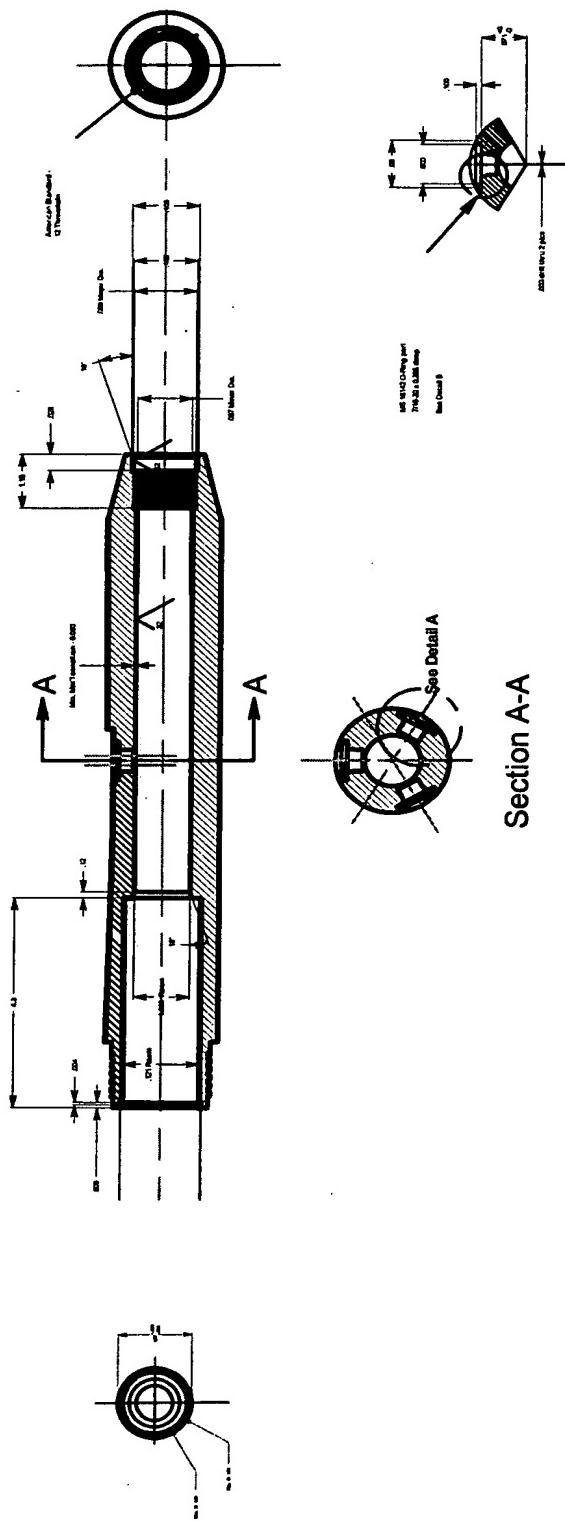
FIG. 4B

U.S. Patent Application No. 10/666,547
Inventor: John H. SOHL, III et al.
Title: ENHANCED SUBSURFACE MEMBRANE
INTERFACE PROBE (MIP)
Attorney Docket No.: 36507-193186
Sheet 5 of 20

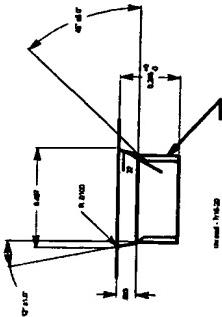


460

- Notes:
1. Match sample thread form
 2. Smallty WI-150 snap ring
 3. Material-cold rolled steel
 4. Break all edges to 0.030 R min.
 5. Hold all diameters concentric within 0.003 in.
 6. Hold all concentric diameters within 0.025 in. unless noted otherwise



Detail A



Detail B

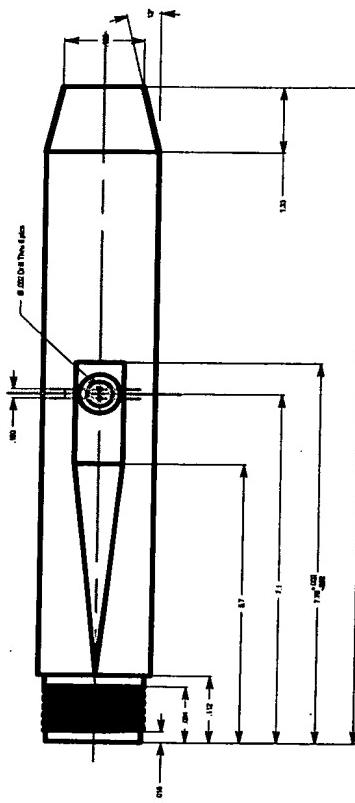


FIG. 4D

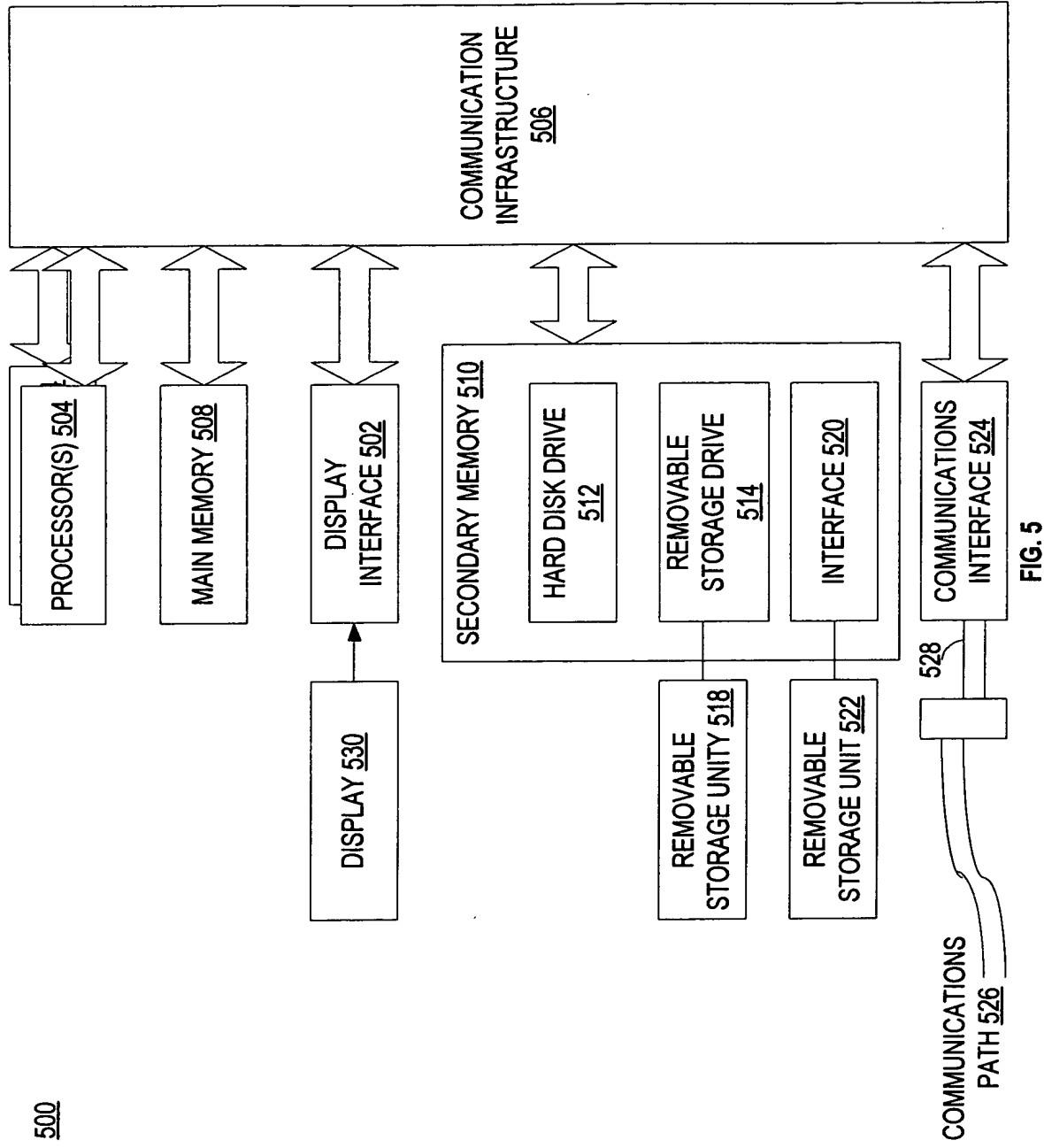


FIG. 5

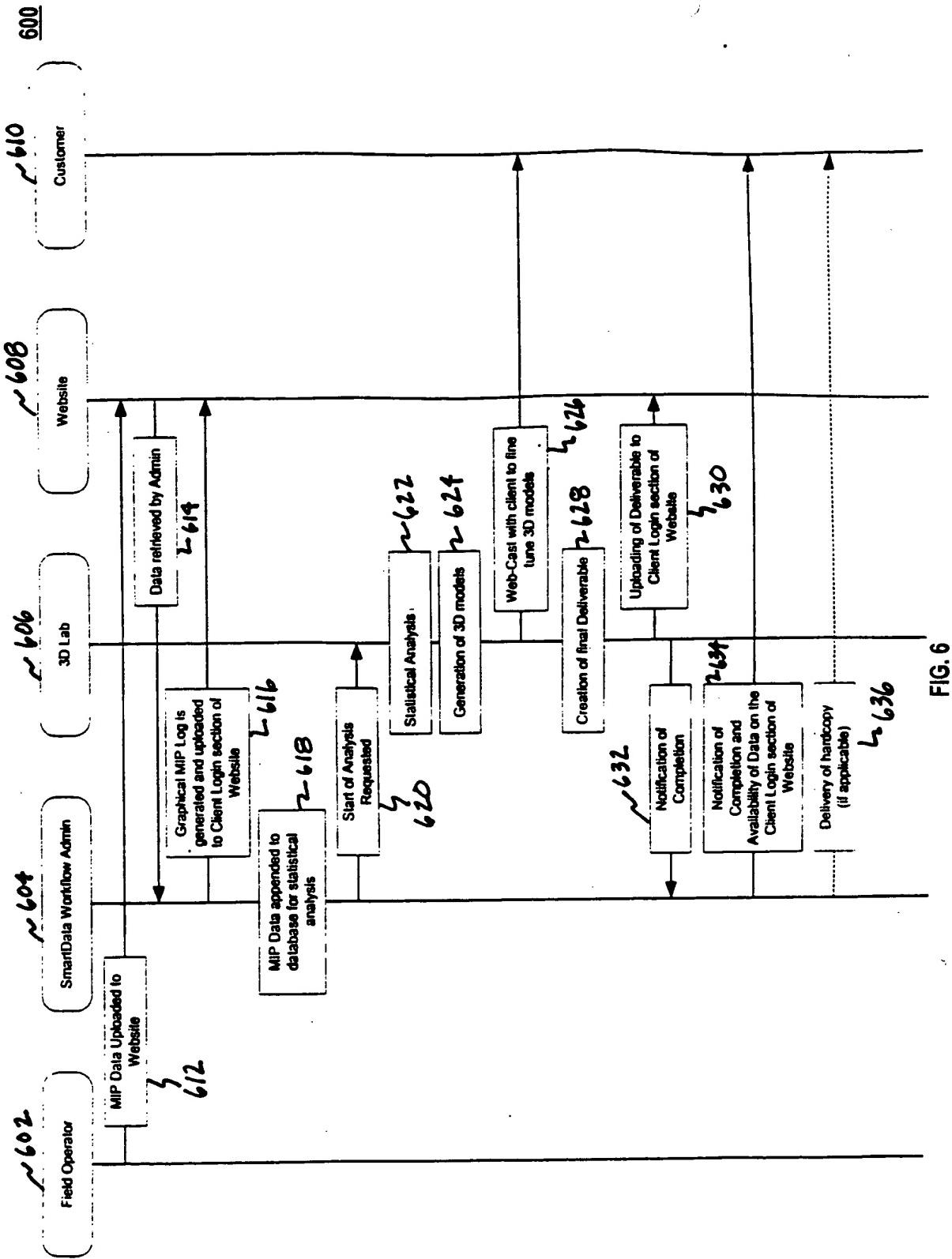


FIG. 6

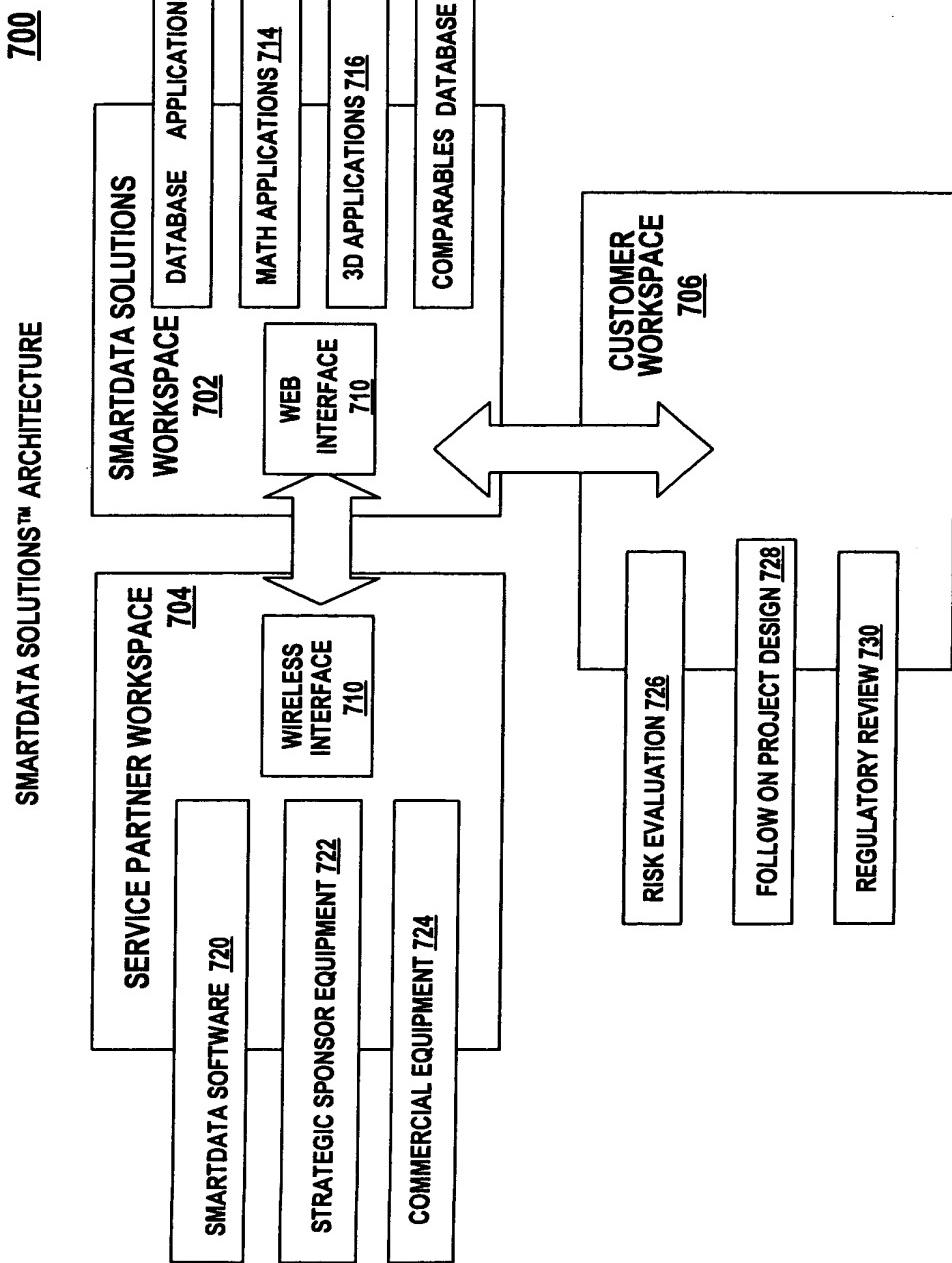
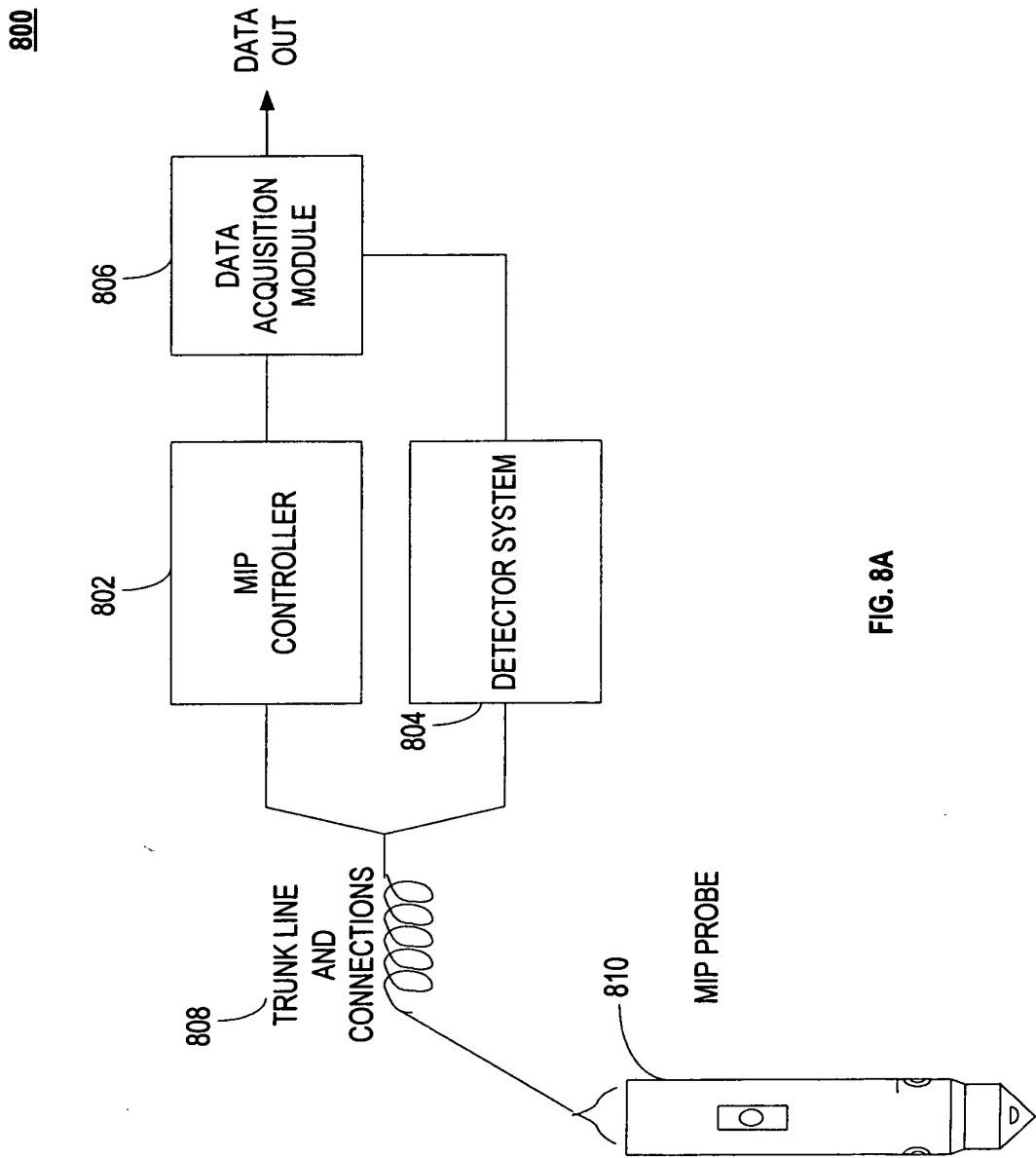
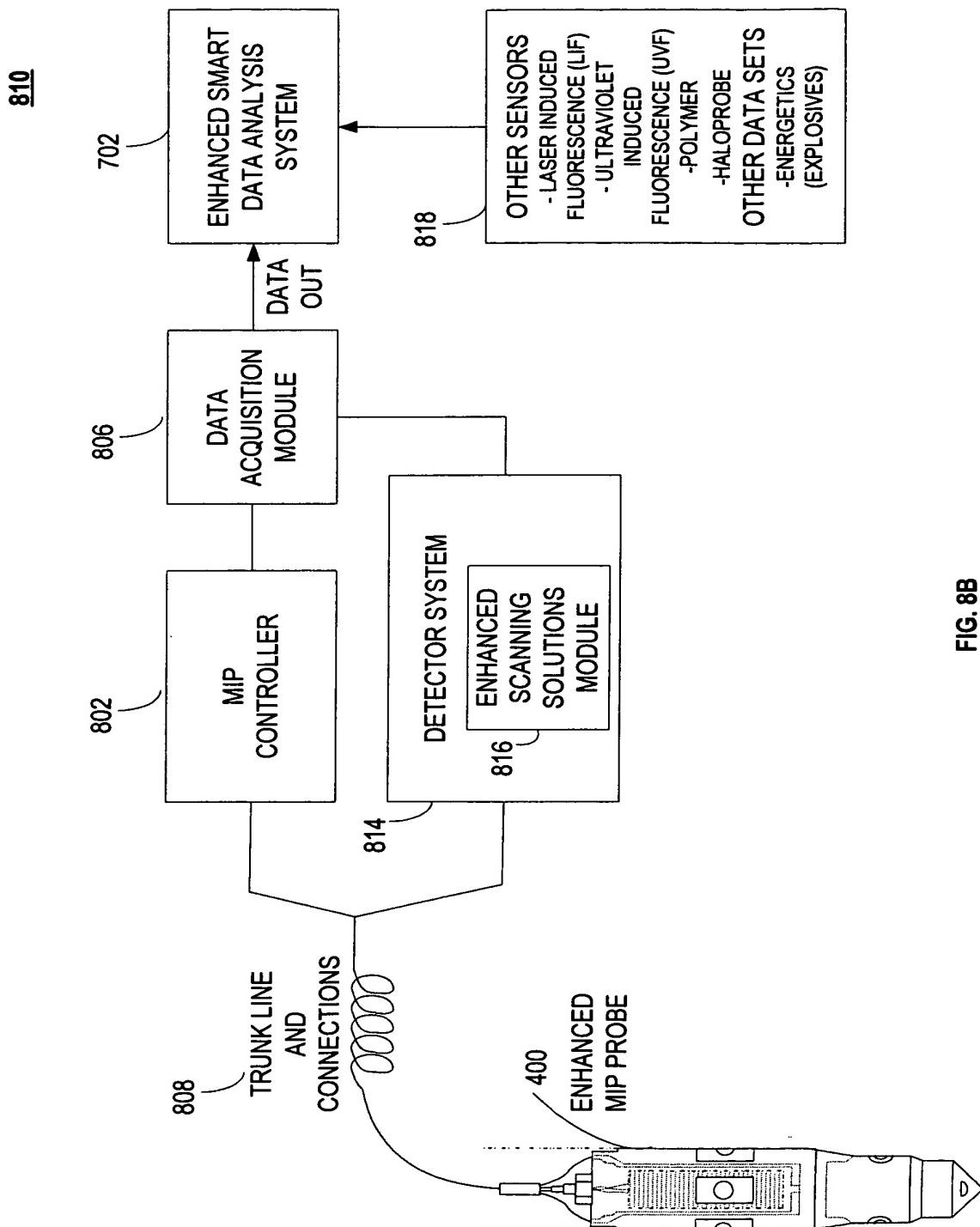


FIG. 7





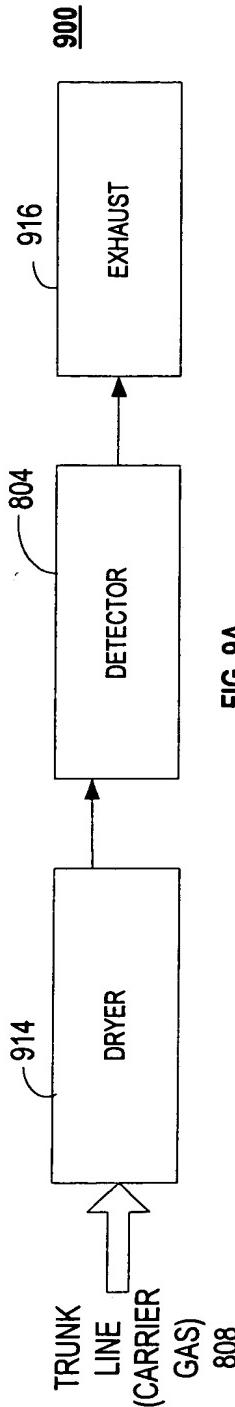


FIG. 9A

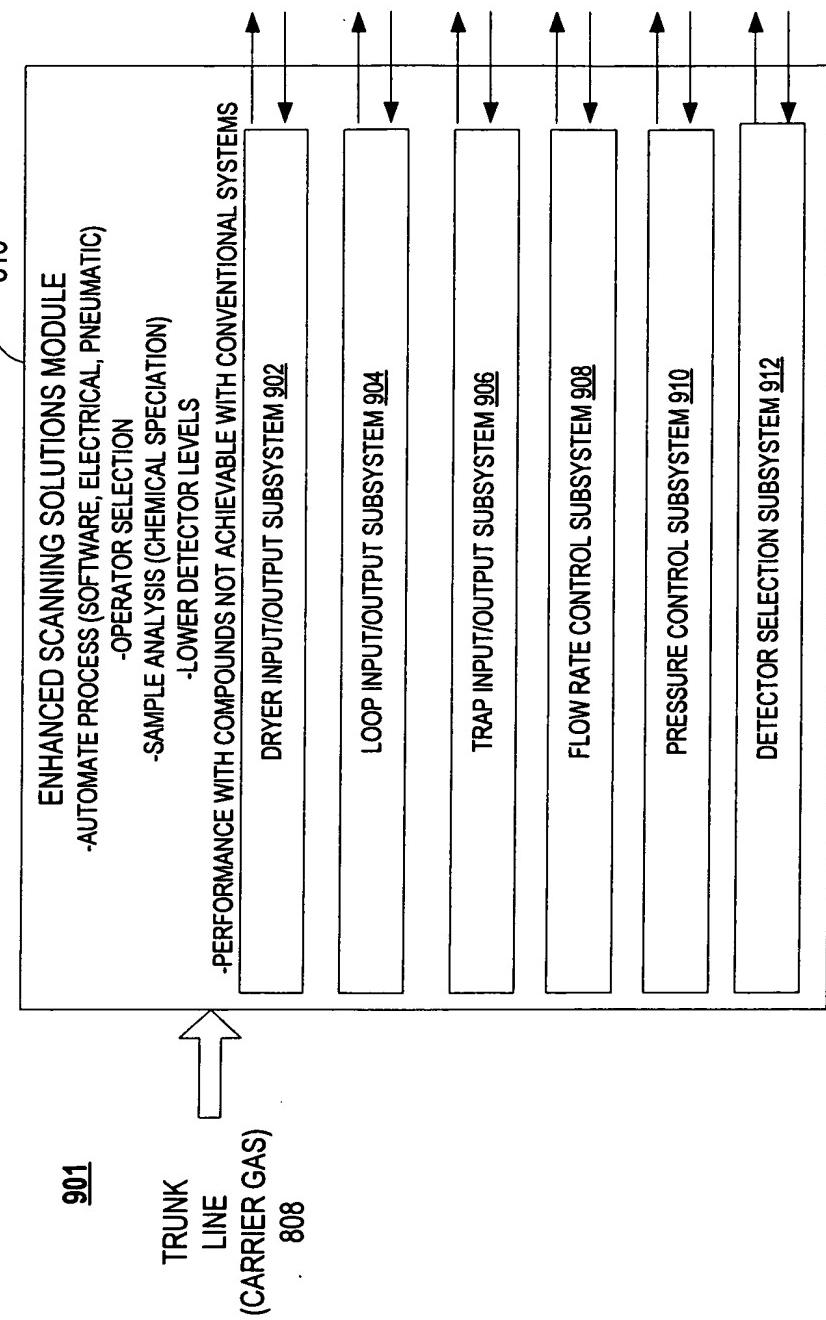


FIG. 9B

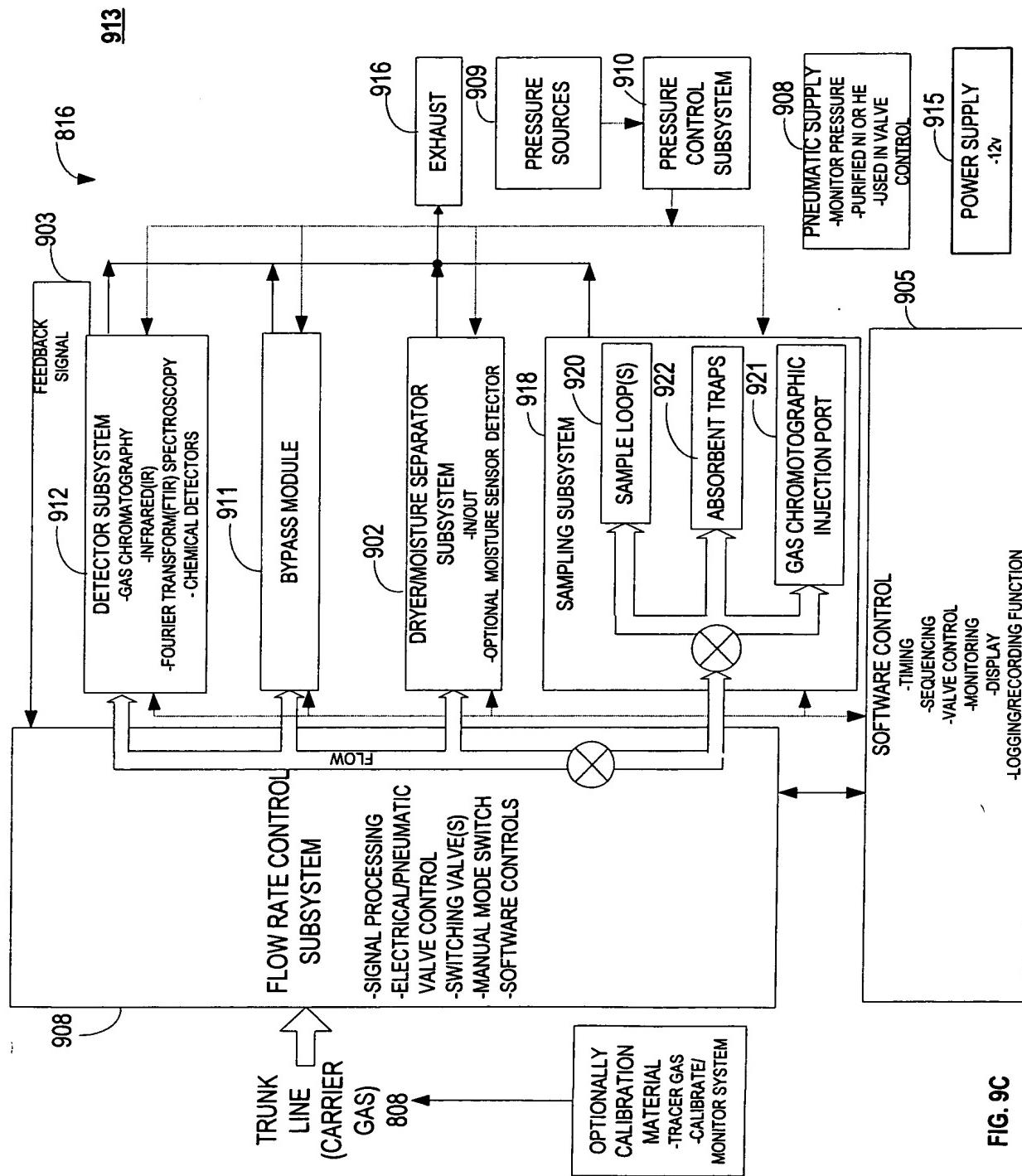


FIG. 9C

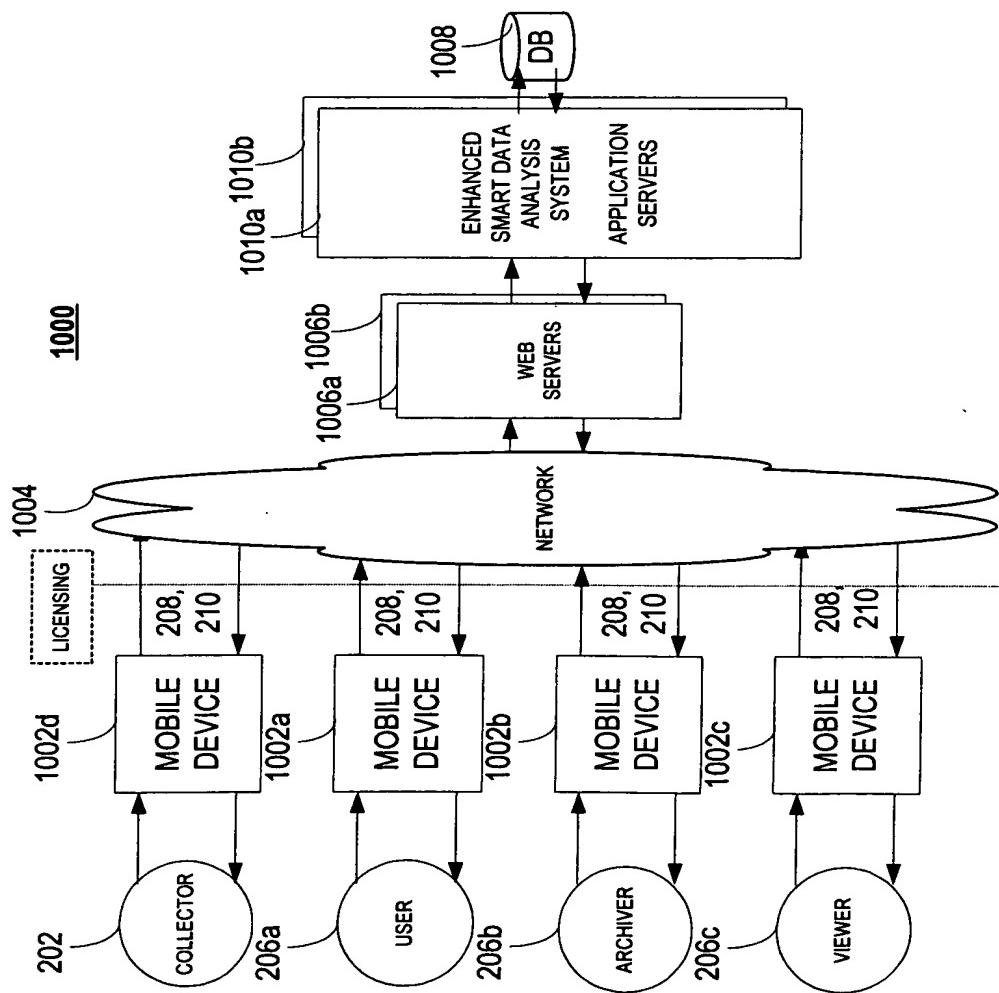
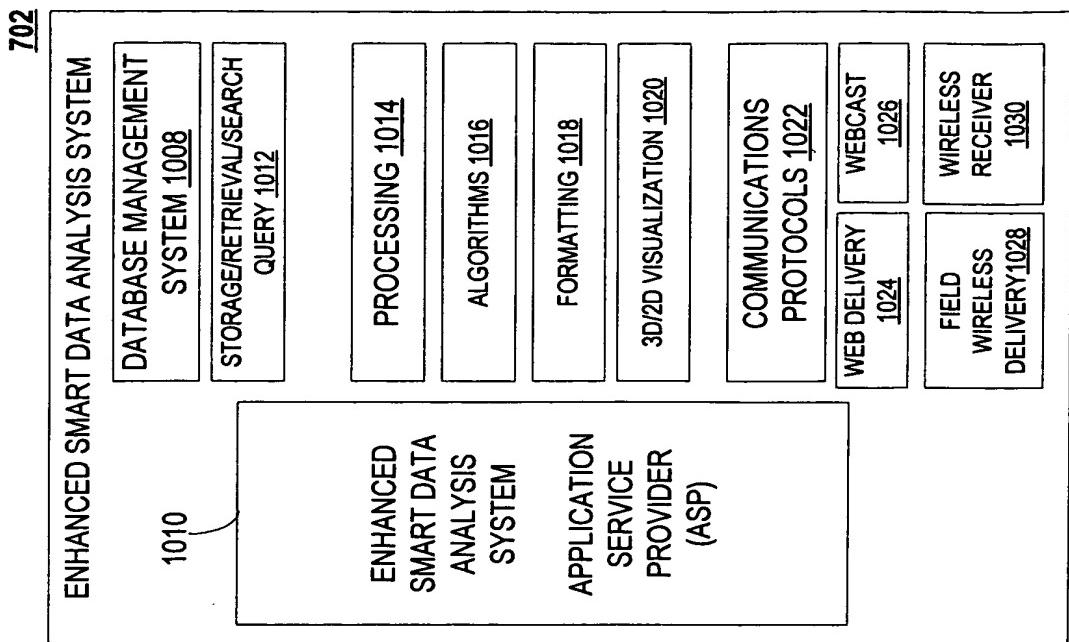


FIG. 10B

FIG. 10A

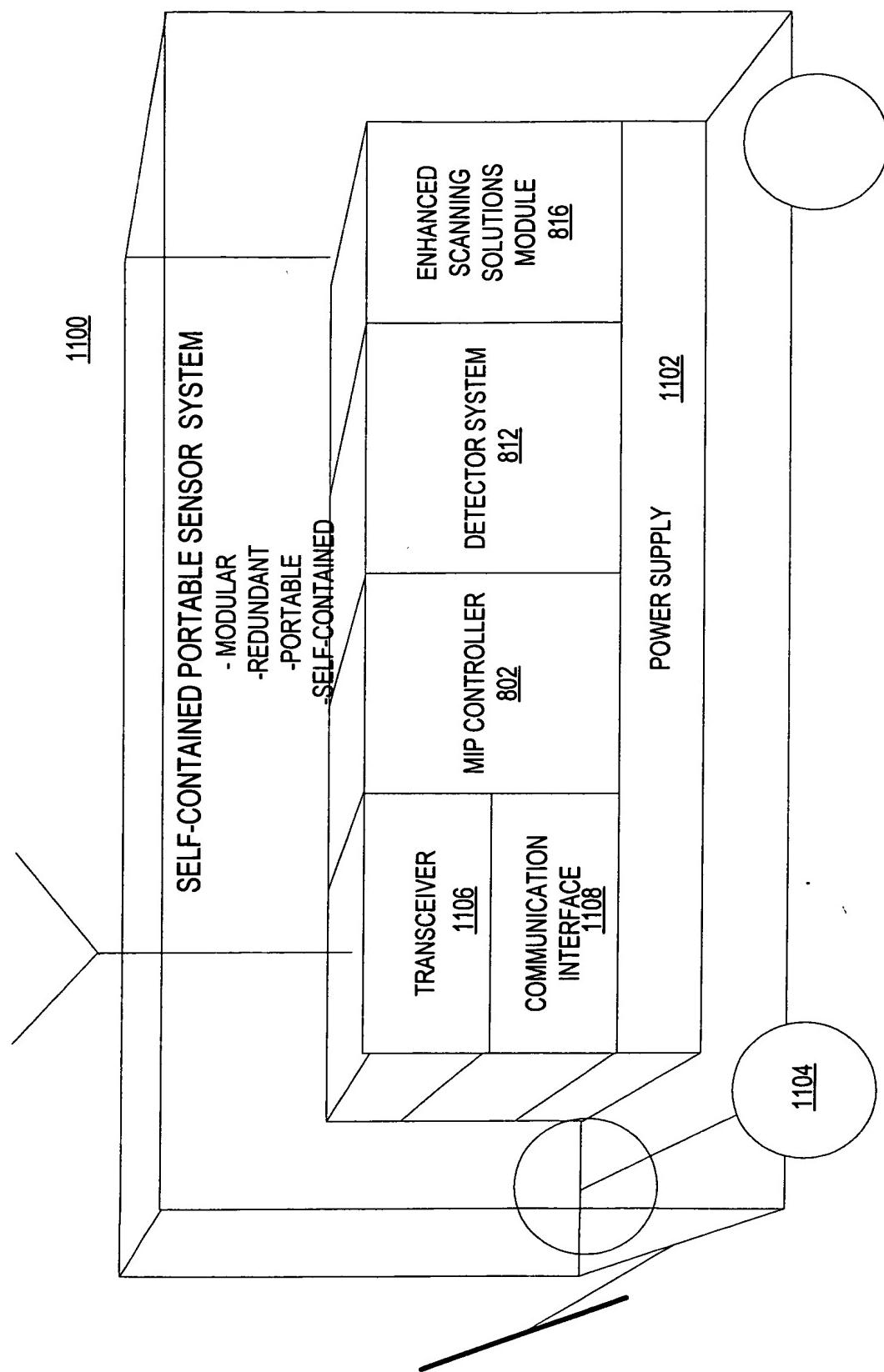
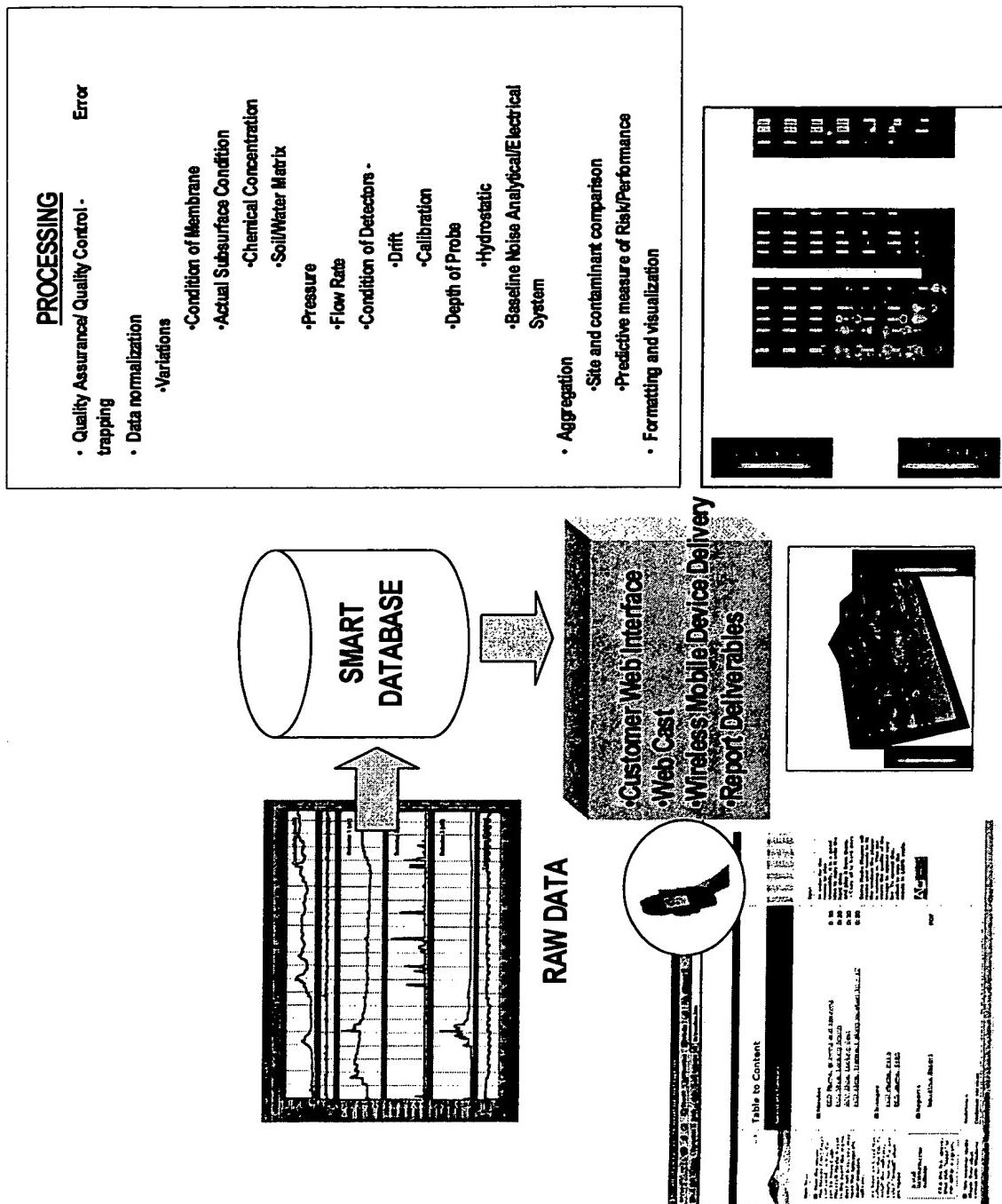


FIG. 11



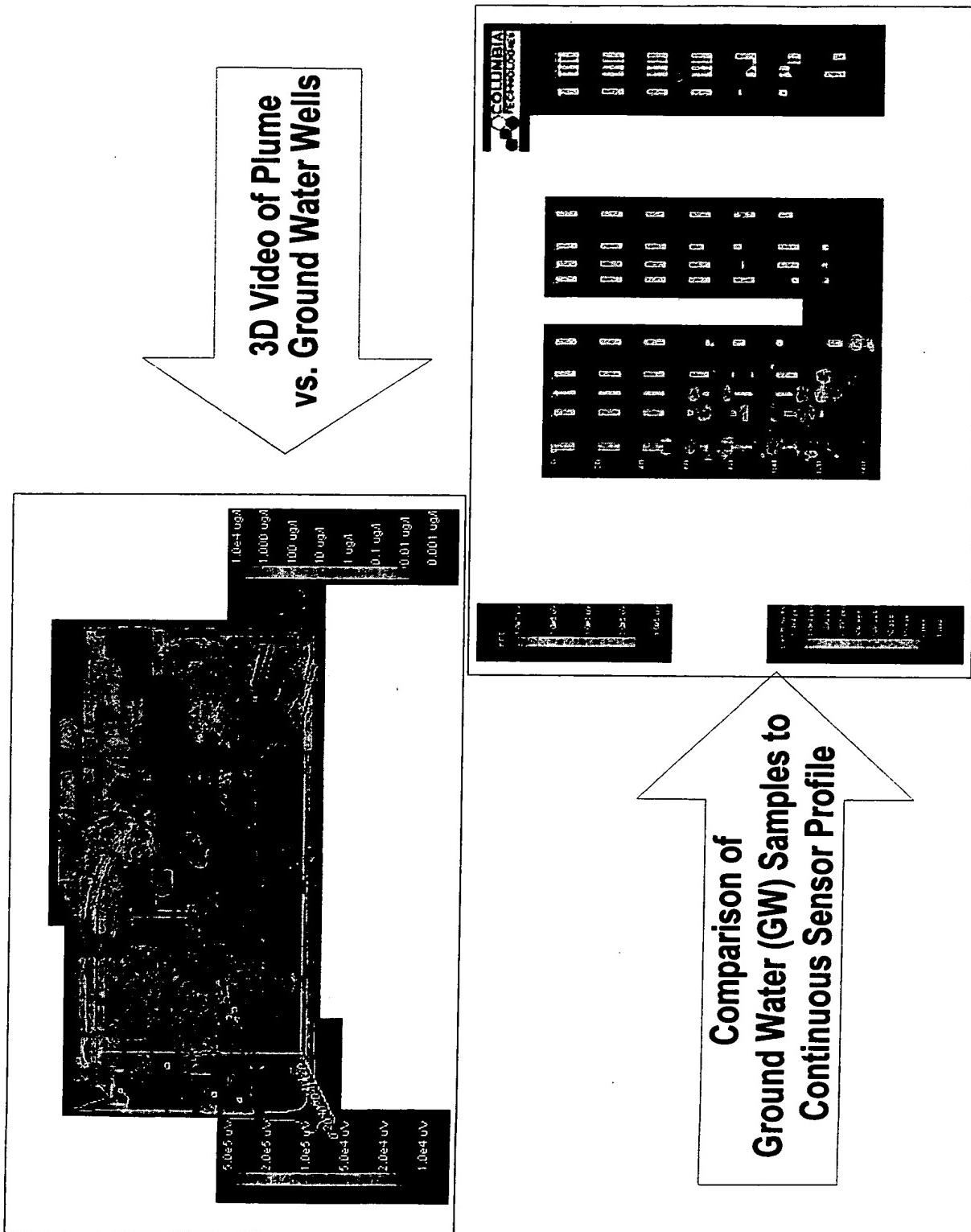


FIG. 12B

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Demo Corp

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FIG. 12C

DemoCorp

Your Projects Manufacturing Facility



SmartData Solutions™

Site Information

Manufacturing Facility
Savanna, GA

Project Dates

Started: 8/12/2002

Completed: 8/21/2002
Status

Completed

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Click the link above, then click "Open" to run setup program.

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FIG. 12D

Webcast

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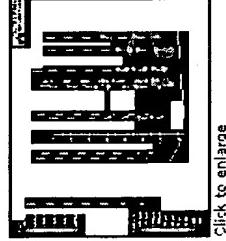
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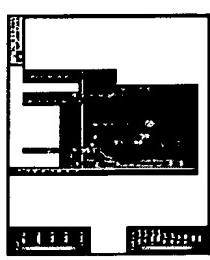


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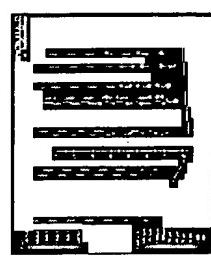


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View: Looking North (N)
 Comment: lab

FIG. 12E